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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/482,099	01/13/2000	Kiyoshi Takei	Q57433	6543	
75	90 05/09/2003	•			
Sughrue Mion Macpeak & Seas		EXAMINER			
2100 Pennsylva Washington, DO	nia Avenue N W C 20037-3202		FLORES RUI	FLORES RUIZ, DELMA R	
			ART UNIT	PAPER NUMBER	
			2828	<u></u>	
	•		DATE MAILED: 05/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/482,099	TAKEI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Delma R. Flores Ruiz	2828				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. It he mailing date of this communication. ID (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 11 F	ebruary 2003 .					
2a)⊠ This action is FINAL. 2b)□ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, •	400 O.G. 210.				
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.		Paul D				
6)⊠ Claim(s) <u>1-3</u> is/are rejected. PAUL IP						
7) Claim(s) is/are objected to.	SU	IPERVISORY PATENT EXAMINER				
8) Claim(s) are subject to restriction and/or	r election requirement.	TECHNOLOGY CENTER 2800				
Application Papers						
9) The specification is objected to by the Examine		miner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domesti	•					
a) The translation of the foreign language pro	visional application has been rec	ceived.				
15) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. §§ 120	J and/06 121.				
Attachment(s)	A) Interview Summer	y (PTO-413) Paper No(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)	5) Notice of Informal	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Takemi et al (5,539,763).

Regarding claim 1 Takemi discloses a DFB type semiconductor laser device comprising; a laser part including an active layer (see Fig. 1, Character 103a and 103b) and a clad layer (see Fig. 1, Character 104) a grating layer (Column 11, Lines 55-61) an insulating layer (Column 16, Lines 67-68, Column 17, Lines 1-7, Column 17, Lines 3-16) and an electrode layer laminated in order, the insulating layer including at least one gap extending in a direction transverse to a grating of the grating layer so that the electrode layer contacts the grating layer and the clad layer (see Fig. 1-9, Column 11, Lines 35-68, Column 12, Lines 1-33, Column 17, Lines 24-68, Column 18,

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Lines 1 – 68, Column 19, Lines 1 – 68, Column 20 Lines 1 – 68, Column 21, Lines 1 – 17),

Regarding claim 3 Takemi discloses a DFB type semiconductor laser device comprising: the clad layer has a thickness equal to or thinner than $0.5\mu m$ (Column 15, lines 14-29).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takemi et al (5,539,763) in view of Chen et al (5,982,804).

Regarding claim 2 Takemi disclose a DFB type semiconductor laser device the active layer is composed of at least InGaAsP (Column 11, Lines 42 – 46) and the clad layer is composed of p-type InP (Column 11, Lines 51 – 53). Takemi discloses the claimed invention except for a grating layer is composed of InGaAs. It would have been obvious at the time of applicant's invention, to combine Chen et al of teaching a grating

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layer is composed of InGaAs with DFB type semiconductor laser device because it would have been obvious to one having ordinary skill in the art at the time the invention was made to grating layer is composed of InGaAs, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Response to Arguments

Applicant's arguments with respect to claims 1 - 3 have been considered but are moot in view of the new ground(s) of rejection. Applicants amendments raised new issues that made necessary the new art to be applied and therefore, the arguments presented against Takiguchi et al are said to be moot due to the new grounds of rejection. Applicant's amendments have been fully addressed by the above-presented rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (703) 308-6238. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3431.

Examiner Art Unit 2828

DRFR/PI May 2, 2003

Supervisor Patent Examiner

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